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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/569,862	06/13/2006	Per Holm	20481/0206898-US0	2548
7278 DARBY & D.	278 7590 06/07/2010 DARBY & DARBY P.C.		EXAMINER	
P.O. BOX 770 Church Street Station New York, NY 10008-0770			YOUNG, MICAH PAUL	
			ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/569 862 HOLM ET AL. Office Action Summary Examiner Art Unit MICAH-PAUL YOUNG 1618 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 08 March 2010. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4)\ Claim(s) 1-10.20-25.27-29.31-37.40-44.51 and 52 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-10.20-25,27-29,31-37,40-44,51 and 52 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

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DETAILED ACTION

Acknowledgment of Papers Received: Amendment/Response dated 1/8/10.

Information Disclosure Statement

The information disclosure statement (IDS) submitted on 12/9/09 was filed after the mailing date of the Last Office Action on 10/23/09. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Terminal Disclaimer

The terminal disclaimer filed on 1/8/10 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of 10/513,807 has been reviewed and is accepted. The terminal disclaimer has been recorded.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior at are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- Resolving the level of ordinary skill in the pertinent art.
- Considering objective evidence present in the application indicating obviousness or nonobviousness.

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Claims 1-10, 20-25, 27-29, 31-37, 40-44, 51 and 52 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combined disclosures of Yamashita et al (EP 1 064 942 hereafter 942) in view of Koretke et al (WO 01/95939 hereafter '939).

The '942 patent teaches a sustained release tacrolimus dosage form (abstract, 0033, 0065, 0058). The composition comprises a mixture of hydrophilic compounds such as polyvinylpyrrolidone, polyethylene glycol with a molecular weight of 4000 [0041]. The composition further includes hydrophobic vehicles such as waxes and fatty acid compounds such as glycerin monostearate, palmitic fatty acid esters, as well as ethylcellulose and methacrylate polymers [0044-0045]. Also included are Eudragit polymers such as Eudragit E, R, S, LS and LD [0047]. The composition further comprises pharmaceutical excipients such as binders, disintegrants, synthetic silicates and lactose [0049-0050, 0056]. The composition is in particulate form with particles sized from 250-350 microns [0051]. The formulation comprises a mixture of hydrophilic and hydrophobic compounds [0099, Example 19]. The composition is in the form of a unit dosage such as a tablet or capsule [0055-0058].

Regarding the claims recites specific release kinetics (release time and enzyme interaction) for the controlled release tacrolimus formulation it is the position of the Examiner that these limitations are functional limitations that do not distinguish over the prior art. The release kinetics are solely dependent on the compositional components of the formulation, meaning the combination of components dictates the release kinetics. Since a compound, or composition and its properties cannot be separated, like compounds or composition must have the same properties whether expressly disclosed or not. As such, since the '942 patent discloses a solid dosage form comprising the same compositional components as the instant claims

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including the mixture of hydrophobic and hydrophilic components it is the position of the Examiner that the '942 formulation would have the same functional limitations i.e. release kinetics and enzyme activity.

As discussed above the '942 patent discloses a solid controlled release tacrolimus formulation comprising various hydrophilic and hydrophobic components. The hydrophilic components include polyethylene glycol with a molecular weight of 4000 along with Gelucire polymers. The reference is however silent to the specific mixture of hydrophilic components of the instant claims, namely the mixture of a Poloxamer in relation to the polyethylene glycol. The mixture of these components is known in the art as seen in the '939 patent.

The '939 patent discloses a controlled release pharmaceutical formulation comprising an active agent and a carrier formulation comprising a mixture of Poloxamer and polyethylene glycol (abstract). The Poloxamer is Poloxamer 188 and the polyethylene glycol has a molecular weight of 6000 (claims). The polyethylene glycol is present in an amount from 60-97.9% while the Poloxamer is present in an amount from 2-20% forming a ratio from 30:1 to about 4.9:1 (claim 4). It would have been obvious to include the mixture of hydrophilic components to the formulation of the '942 patent in order to impart improved thermal stability and solubility for water insoluble drugs such as tacrolimus.

With these aspects in mind it would have been obvious to combine the hydrophilic mixture of the '939 patent into the formulation of the '942 patent in order to impart an improved thermal stability to the formulation, as well as an improved bioavailability of the drug in solid dispersions recited in the '942 patent. This mixture would provide these advantages to the formulation of the '942 patent without the need for a solvent system reducing production cost

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and time. It would have been obvious to combine the prior art as such with an expected result of a thermally stable solid dispersion of poorly water soluble drug formulation.

Response to Arguments

Applicant's arguments with respect to claims 1-10, 20-25, 27-29, 31-37, 40-44, 51 and 52 have been considered but are moot in view of the new ground(s) of rejection. However, it remains the position of the Examiner that the '942 patent continues to disclose elements of the instant claims. Specifically, the patent discloses a tacrolimus tablet with particulate components and a polyethylene glycol with a molecular weight above 1500. The mixture of dispersing agents differs from the instant claims. The '939 patent discloses the same mixture of the instant claims. Applicant argues that the '939 patent would not be useable for making tablets, however this argument is assuming compression tabletting techniques would be used. The claims are not drawn to methods of compression or compaction tabletting, yet are drawn to product claims comprising a mixture of polyethylene glycol, poloxamers, and other excipients. This mixture has been found in the prior art and for these reasons the claims remain obviated.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., In re Berg, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); In re Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Ornum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and In re Thorington, 418 F.2d 528, 163 USPQ 645 (CCPA 1962).

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A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3,73(b).

Claims 1-44 and 51 are provisionally rejected on the ground of nonstatutory obviousnesstype double patenting as being unpatentable over claims 59, 66, 72-74, 83-85 and 90 of
copending Application No. 10/574,125. Although the conflicting claims are not identical, they
are not patentably distinct from each other because both applications are drawn to formulation
comprising tacrolimus in a mixture of polyethylene glycol and Poloxamer 188 combined with
hydrophobic components and excipients. The claims differ slightly in scope yet encompass the
same general features and components. The copending claims are all product claims dependent
from method claims reciting the same pharmaceutical components of the instant claims.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claims 1-44 and 51 are provisionally rejected on the ground of nonstatutory obviousnesstype double patenting as being unpatentable over claims 1, 3-11, 13-29, 31-34, 36, 37, 40-44 and
53-56 of copending Application No. 10/569,863. Although the conflicting claims are not
identical, they are not patentably distinct from each other because both sets of claims are drawn
to controlled release tacrolimus formulation comprising mixtures of polyethylene glycol and
Poloxamer 188, along with common excipients. The copending claims differ by reciting a
specific percent concentration while the instant claims recite the mixture in a ratio. The claims
however encompass the same components and would read on each other if issued.

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This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claims 1-44 and 51 are provisionally rejected on the ground of nonstatutory obviousnesstype double patenting as being unpatentable over Claims 1-50 of copending Application No. 11/885992. Although the conflicting claims are not identical, they are not patentably distinct from each other because they are both drawn to similar pharmaceutical compositions of tacrolimus or tacrolimus analogues and methods of preparation of said compositions.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action

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Correspondence

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to MICAH-PAUL YOUNG whose telephone number is (571)272-

0608. The examiner can normally be reached on Monday-Friday 8:00-5:30; every other Friday

off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Michael G. Hartley can be reached on 571-272-0616. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

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like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Michael G. Hartley/

Supervisory Patent Examiner, Art Unit 1618

/MICAH-PAUL YOUNG/

Examiner, Art Unit 1618